CIVIL TECH LABS

Accredited by **NABL** as per ISO/ IEC 17025 : 2005

5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer
Yelahanka New Town Sub Division,
BBMP.

04th May 2015

Dear Sir,

Sub: Testing of Materials.

As requested, the required tests were carried out for the materials the samples supplied by you, for the work of **'Construction of of Samudaya Bhavana at judicial layout in Ward No. 04.'**

Please find the enclosed Test Reports of the above.

Thanking You,
For Civil Tech Labs

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

AE W.4

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TEST REPORT

TEST ON CEMENT

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP
Name of Work	Construction of of Samudaya Bhavana at judicial layout in Ward No. 04.
Name of the Agency	Sri. Gopireddy K
Date of Testing	04/05/2015

Tests	Test Method As Per IS & Apparatus		Results		Requirements As Per IS 8112:1989	Remarks
	IS Code	Method	Value	Unit		
Initial Setting Time	IS-4031 (Part-5) 1988	VICAT	53	min	Not Less Than 30 Minutes	Satisfies Requirement
Final Setting Time	IS-4031 (Part-5) 1988	VICAT	483	min	Not More Than 600 Minutes	Satisfies Requirement
Soundness	IS-4031 (Part-3) 1988	LE-CHATELIER	3	mm	Not More Than 10 mm	Satisfies Requirement

Note:

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3. Any correction invalidates this report.
4. The results are based on the test conducted on samples supplied by the client.

Lab Incharge
Civil Tech Labs

CIVIL TECH LABS BANGALORE

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TEST REPORT

TEST ON FINE AGGREGATES Ref IS:383/2386

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP
Name of Work	Construction of of Samudaya Bhavana at judicial layout in Ward No. 04.
Name of the Agency	Sri. Gopireddy K.
Date of Testing	04/05/2015
Specific Gravity	2.56

Sample	IS Sieve designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970				Grading Zone
			ZONE-I	ZONE-II	ZONE-III	ZONE-IV	
River Sand	10	100	100	100	100	100	II
	4.75	97.4	90-100	90-100	90-100	95-100	
	2.36	83.6	60-95	75-100	85-100	95-100	
	1.18	72.4	30-70	55-90	75-100	90-100	
	0.6	43.6	15-34	35-59	60-79	80-100	
	0.3	23.5	5-20	8-30	12-40	15-50	
	0.15	8.1	0-10	0-10	0-10	0-15	

Note:

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Lab Incharge
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TEST REPORT

TEST ON COARSE AGGREGATES 40mm ↓ Graded Ref:IS:383/2386

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP
Name of Work	Construction of of Samudaya Bhavana at judicial layout in Ward No. 04.
Name of the Agency	Sri. Gopireddy K.
Date of Testing	04/05/2015
Specific Gravity	2.67
Water Absorption in %	0.29

IS Sieve Designation (mm)	Sieve Analysis (% Passing IS Sieve)	Grading Requirement as per IS:383-1970 (Reaffirmed 2011)	Remarks
80	100	100	Satisfies the requirement
40	98.4	95-100	
20	53.6	30-70	
10	23.4	10-35	
4.75	4.5	0-5	

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TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 8 mm

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP
Name of Work	Construction of of Samudaya Bhavana at judicial layout in Ward No. 04.
Name of Agency	Sri. Gopireddy K.
Date of Testing	04/05/2015

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	8	8	Satisfactory
2	Wt/m Length (Kg/m)	0.397	0.395	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	14.7	14.5	Satisfactory
5	Yield Stress(N/Sq.mm)	416	415	Satisfactory
6	U T S (N/Sq.mm)	520	485	Satisfactory

Note:
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TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 10mm

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP
Name of Work	Construction of of Samudaya Bhavana at judicial layout in Ward No. 04
Name of Work	Sri. Gopireddy K.
Date of Testing	04/05/2015

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	10	10	Satisfactory
2	Wt/m Length (Kg/m)	0.618	0.617	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	14.8	14.5	Satisfactory
5	Yield Stress(N/Sq.mm)	418	415	Satisfactory
6	U T S (N/Sq.mm)	522	485	Satisfactory

Note:

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4. The results are based on the test conducted on samples supplied by the client.

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TEST REPORT

TESTS ON REINFORCEMENT STEEL BAR 12 mm

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP
Name of Work	Construction of of Samudaya Bhavana at judicial layout in Ward No. 04.
Name of Agency	Sri. Gopireddy K.
Date of Testing	04/05/2015

Sl.No.	Description	Result	IS 1786-2008 Min. Requirements	Remarks
1	Measured Diameter mm	12	12	Satisfactory
2	Wt/m Length (Kg/m)	0.889	0.888	Satisfactory
3	Bend & RebendTest	Pass	Should not Crack or Fracture	Satisfactory
4	Elongation (%)	15.2	14.5	Satisfactory
5	Yield Stress(N/Sq.mm)	421	415	Satisfactory
6	U T S (N/Sq.mm)	526	485	Satisfactory

Note:

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4. The results are based on the test conducted on samples supplied by the customer.

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Lab Incharge
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TEST REPORT

TESTS ON SOLID BLOCKS

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP
Name of Work	Construction of of Samudaya Bhavana at judicial layout in Ward No. 04.
Name of Work	Sri. Gopireddy K
Date of Testing	04/05/2015
Technical Reference	IS: 2185(Part-I)-2005 (Reaffirmed 2010)
No. of samples tested	8
Grade	C (4.0)

1. COMPRESSIVE STRENGTH

Sample-3				
Sl. No.	**Nominal Dimension (cms)**	**Compressive strength (N/mm²)**	**Minimum Compressive Strength as per IS: 2185(Part-I)-2005 (Reaffirmed 2010)**	
			Individual	**Avg. of 8 samples**
1	40x20x20	4.3	**Minimum Compressive Strength of Individual Units**	**Minimum Average Compressive Strength of Units**
2		4.5		
3		4.4	For Grade C (5.0)- 4.0 N/mm² For Grade C (4.0)- 3.2 N/mm²	For Grade C (5.0)- 5.0 N/mm² For Grade C (4.0)- 4.0 N/mm²
4		4.6		
5		4.2		
6		4.3		
7		4.3		
8		4.3		
Average Compressive strength (N/mm²)		**4.4**		

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2. WATER ABSORPTION

Sl. No.	Nominal Dimension (cms)	Water Absorption (% by weight)	Average (% by weight)	Requirements as per IS : 2185(Part-I)-2005 (Reaffirmed 2010)
1	40x20x20	7.65	7.73	When three samples are tested the average water absorption shall not be more than 10% by mass
2		7.73		
3		7.82		

3. BLOCK DENSITY

Sl. No.	Nominal Dimension (cms)	Block Density (Kg/cum)	Average (Kg/cum)	Requirements as per IS : 2185(Part-I)-2005 (Reaffirmed 2010)
1	40x20x20	1863.3	1864.8	The Solid Concrete blocks used as load bearing units shall have average block density not less than 1800Kg/m^3
2		1864.3		
3		1866.8		

Remarks	Satisfies the Requirements.

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Lab Incharge
Civil Tech Labs

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5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
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T-2654

To,

Assistant Executive Engineer
Yelahanka New Town Sub Division,
BBMP.

11th June 2015

Dear Sir,

Sub: Construction of of Samudaya Bhavana at judicial layout in Ward No. 04.
Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Report of the above.

Thanking you,

For Civil Tech Labs,

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

CIVIL TECH LABS
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
Ph: 080 - 4114 2867, Email: civiltechlabs@gmail.com

TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP
Name of Work	Construction of of Samudaya Bhavans at judicial layout in Ward No. 04.
Name of Agency	Sri. Gopireddy K
Grade of Concrete	M-15
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	CC-Work (plinth)	14/05/2015	11/06/2015	28	8.16	348	**15.47**	**15.70**
2					8.18	358	**15.91**	
3					8.17	354	**15.73**	

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Lab Incharge
Civil Tech Labs

CIVIL TECH LABS BANGALORE

CIVIL TECH LABS

Accredited by **NABL** as per ISO/ IEC 17025 : 2005

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Ph: 080 - 4114 2867 / Mob. : 96862 31801, Email: civiltechlabs@gmail.com

T-2654

To,

Assistant Executive Engineer
Yelahanka New Town Sub Division,
BBMP.

27th June 2015

Dear Sir,

Sub: Construction of of Samudaya Bhavana at judicial layout in Ward No. 04. Testing of cubes – Reg.

As requested the 28th day Compressive Strength Test of Cubes was carried out for the above work for the samples supplied by you.

Please find the enclosed Test Report of the above.

Thanking you,

For Civil Tech Labs,

Khushboo

CIVIL TECH LABS BANGALORE

(KHUSHBOO L.)
Quality Manager

AE LI-4

CIVIL TECH LABS
5, 1st Cross, Srinivasa Colony, Mission Road, Bangalore - 560027
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TEST REPORT

COMPRESSIVE STRENGTH TEST ON CONCRETE CUBES

Name & Address of the Customer	AEE, Yelahanka New Town Sub Division, BBMP
Name of Work	Construction of of Samudaya Bhavana at judicial layout in Ward No. 04.
Name of Agency	Sri. Gopireddy K.
Grade of Concrete	M-20
No. of cubes tested	3
Dimension of Specimen	150mmx150mmx150mm
Cross Sectional Area	22500 mm²
Technical Reference	IS: 516-1959 (Reaffirmed 2013)

Sl. No.	Identification	Date of Casting	Date of Testing	Age at test (Days)	Weight (Kg)	Failure Load (KN)	Compressive Strength (N/mm²)	Avg Compressive Strength (N/mm²)
1	CC-Work	30/05/2015	27/06/2015	28	8.18	470	**20.89**	**21.19**
2					8.20	475	**21.11**	
3					8.21	485	**21.56**	

Note:

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Lab Incharge
Civil Tech Labs

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